REMARKS

Reconsideration and allowance in view of the foregoing amendments and the following remarks is respectfully requested.

By this amendment, the specification is amended, the drawings are amended, and claims 9-17 and 22-25 are amended.

Figs. 1-15 are objected to based upon the indication that the figures have handwritten and non-descriptive labels. Replacement Figs. 1-15 are amended to obviate this objection. Accordingly, withdrawal of the objection to the drawings is respectfully requested.

The specification is objected to because of the noted informalities. In response, a reference to PCT application and foreign priority in the first sentence of the specification has been added. Accordingly, Applicants respectfully request withdrawal of this objection.

Claims 9-14, 16-17 and 22 are objected to because of the noted informalities. In response, claims 9-14, 16-17 and 22 are amended to correct the informalities in accordance with the Examiner's helpful suggestion and comply with U.S practice. Withdrawal of this objection is respectfully requested.

Claims 9 and 22 are rejected under 35 USC §103(a) as being unpatentable over Miyashita et al. (5828784) in view of Tourunen et al. (20020001298) and Battin et al. (20020199019). In response, claims 9 and 22 have been amended and Applicants respectfully traverse this rejection for the following reasons.

Miyashita appears to disclose a method to compress a data stream, for example, a text or an image by dividing the data stream in variable length sized blocks and applying to each of these blocs, at least a first step of compression and a second step of quantization in order to produce a coded data block. A header section indicating

which one of all division blocks is associated with each of the variable length quantized data is generated. For each initial block, additional amount information is provided to indicate the amount of additional quantized data.

However, Miyashita fails to disclose a method of network header compression related to the technical networking, as recited in claims 9 and 22. On the contrary, Miyashita discloses a method related to the technical prior art of source coding. Thus, it is not obvious for one ordinary skill in the art to consider Miyashita as pertinent regarding the technical problem raised by the present invention.

Further, although Miyashita, at column 5, line 47 to column 6, lines 10-11, appears to disclose generating estimated original data and quantized additional information, these two elements are generated by a data coding apparatus located at the application level of a data transmission chain. Claims 9 and 22 are distinguished from Miyashita in that Applicants recite wherein generating estimated data and quantized additional information is done, in one case, at the network access level. Thus, it is not obvious for one ordinary skill in the art to generate the quantized additional information generation at the network access level, as recited by Applicants, with data generation at the application level, as disclosed by Miyashita.

Further, Miyashita, at column 6, lines 43-45, appears to disclose the generation of header data which is combined with the variable-length quantized data to produce the coded data. Nevertheless, Miyashita does not disclose or suggest that "generating a second stream of new packets with the compressed header at the header compression level on the basis of the additional information produced at an application package level, "as recited in amended claims 9 and 22. That is, Miyashita fails to disclose the use of a header compression phase to generate additional packets.

Still further, Miyashita, at column 12, lines 35-36, appears to disclose the generation of coded data by coupling the variable-length quantized data and the header

data. Miyashita does not describe the fact that the header data is generated by a header compression mechanism as recited in amended claims 9 and 22.

In addition, Miyashita, at column 16, line 60, appears to disclose that previously generated packets are transmitted to a terminal which implicitly enables the transmission over a channel. However, Miyashita fails to disclose, teach, or suggest the use of two separate streams for data and additional information in amended claims 9 and 22.

Applicants respectfully submit that Tourunen and Battin fail to cure the above identified deficiencies of Miyashita. Specifically, Tourunen appears to disclose a method for allocating data transmission resources in a packet-switched data transmission system that comprises an operational entity for defining resources for a radio bearer and a header compression module. This method proposes to select the compression method before setting up the radio bearer resources which gives the advantage of optimizing the resources allocation for a radio bearer considering the type of header compression mechanism used, in particular, unidirectional or bidirectional mode.

Applicants respectfully submit that the alleged combination of the applied art to render obvious Applicants' method for exchanging data between two layers of a network stack in a data transmission system comprising a header compression and/or decompression mechanism is improper.

Tourunen, at paragraph 22, lines 1-8, appears to disclose a transmission of data packets coming from the higher application-level layers to the lower link-level layers and vice versa. Nevertheless, Tourunen fails to disclose the transmission of a second stream of data containing additional information, as recited in claims 9 and 22.

Further, Tourunen, at paragraph 23, lines 1-14, appears to disclose a header compression algorithm to be implemented in a protocol stack. Tourunen, however, fails

to disclose or suggest that a header compression step is used to generate packets containing additional information coming from the network access level as recited in amended claims 9 and 22.

Battin relates to a method for eliminating the protocol headers and/or trailers included in a transmission of a data packet, and at paragraph 39, lines 1-12, appears to disclose a typical protocol stack including an application layer and lower layers. Applicants respectfully submit that the use of Battin, combined with Tourunen and Miyashita, does not disclose or suggest the additional information of amended claims 9 and 22.

Therefore, even if the applied references were combined together, the resulting combination would not disclose or suggest the features recited in amended claims 9 and 22. In particular, the use of a header compression/decompression phase to generate packets containing additional information being generated at the network access level for the application level is not disclosed or suggested by the applied art. Thus, for at least these reasons presented above, independent claims 9 and 22 should be allowable and this rejection should be withdrawn.

Claims 10-21 and 23-25 are rejected under 35 USC §103(a) as being unpatentable over Miyashita et al. in view of Tourunen et al. and Battin et al. as applied to claims 9 and 22 above, and further in view of Cassiers et al. (20050002265). Applicants respectfully traverse this rejection for the following reasons below.

Claims 10-21 and 23-25 depend upon claims 9 and 22, directly or indirectly, and recite additional important features and should be considered to be patentable for at least the reason advanced with respect to claims 9 and 22.

All objections and rejections having been addressed, it is respectfully submitted that the present application should be in condition for allowance and a Notice to that effect is earnestly solicited.

Early issuance of a Notice of Allowance is courteously solicited.

The Examiner is invited to telephone the undersigned, Applicant's attorney of record, to facilitate advancement of the present application.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 07-1337 and please credit any excess fees to such deposit account.

Respectfully submitted,

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